

MATH 105A: FALL 2018
ADVANCED MATHEMATICS FOR SCIENCE AND ENGINEERING, I

Lectures:

Section 1:

Mondays, Wednesdays, and Fridays, 10-10:50am, in Room 227, Alpine Hall

Tuesdays, 10:30-11:20am, in Room 227, Alpine Hall

Section 2:

Mondays, Wednesdays, and Fridays, 1-1:50pm, in Room 105, Brighton Hall

Tuesdays, 1:30-2:20pm, in Room 105, Brighton Hall

Instructor:

Michael VanValkenburgh

Room 140, Brighton Hall

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(916) 278-7075

Tentative Office Hours:

Mondays 11am-noon, Tuesdays 12-1pm, and Wednesdays&Thursdays 2-3pm.

Also by appointment.

Required Text: Kreyszig, *Advanced Engineering Mathematics*, Sac State Custom Edition, Copyright Year 2013. It is identical to the 10th Edition of the book, only with some chapters removed and in paperback, to make it slightly cheaper.

Topics Covered: Most of Chapters 7, 8, 4, 9, and 10 (in that order). See the class webpage for a detailed lecture schedule.

Prerequisites: Math 32 and 45

Grading Policy:

25% Homework

15% Hour Exam 1

15% Hour Exam 2

15% Hour Exam 3

30% Cumulative Final Exam

Drop Policy: Please see <https://www.csus.edu/math/documents/policies/drop.pdf>

Homework and Reading Assignments:

You are expected to read the relevant sections of the book, as listed on the class webpage.

You may do “preliminary work” with others (for example, you may give each other hints), but you are expected to write the detailed solutions on your own. If you get help from some source (including, but not limited to, a person or a website), you must clearly cite that source in your homework. Please do not share complete written solutions.

Exams:

- Exam 1: Monday, September 17
- Exam 2: Wednesday, October 10
- Exam 3: Friday, November 9
- Final Exam:
 - Section 1: Friday, December 14, 8-10am
 - Section 2: Monday, December 10, 12:45-2:45pm

Exam Protocol:

- You will need pencils/pens and erasers, nothing more. Keep all devices capable of communication turned off and out of sight. Calculators are not permitted.
- Solutions to each exam will be posted promptly after the administration of the exam. You are encouraged to look at the solutions while the exam is still fresh in your mind.
- The final exam will be cumulative, but extra emphasis will be given to material covered after the third exam.
- Do not make arrangements to leave campus prior to the final exam.

Accommodations:

If you require accommodations, please let me know early in the semester so that your learning needs may be appropriately met.

Absences:

You are held responsible for all work missed during absences. Late homework and make-up exams will only be allowed under rare circumstances, and, moreover, only with my explicit written consent.